Data Record on Coded Wire Tags Recovered from Juvenile Salmonids at Campbell River Estuary and Discovery Passage, 1984

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September 1985

Canadian Data Report of Fisheries and Aquatic Sciences No. 527

86-0378/

Canadian Data Report of Fisheries and Aquatic Sciences

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Canadian Data Report of Fisheries

and Aquatic Sciences 527

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DATA RECORD ON CODED WIRE TAGS RECOVERED FROM JUVENILE SALMONIDS AT CAMPBELL RIVER ESTUARY AND DISCOVERY PASSAGE, 1984.

by

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Cat. No. Fs97-13/527E ISSN 0706-6465

Correct citation for this publication:

Kotyk, M. S., T. J. Brown, B. Kask, C. D. Levings, C. D. McAllister, J. S. Macdonald, and B. D. Chang. 1985. Data record on coded wire tags recovered from juvenile salmonids at Campbell River estuary and Discovery Passage, 1984. Can. Data Rep. Fish. Aquat. Sci. 527: 17 p.

ABSTRACT

Kotyk, M. S., T. J. Brown, B. Kask, C. D. Levings, C. D. McAllister, J. S. Macdonald, and B. D. Chang. 1985. Data record on coded wire tags recovered from juvenile salmonids at Campbell River estuary and Discovery passage, 1984. Can. Data Rep. Fish. Aquat. Sci. 527: 17 p.

Data are presented on lengths, weights and coded wire tags of juvenile salmonids salmon sampled by beach seine in the Campbell River estuary and Discovery Passage in January to August 1984. Data are also provided on location, date, and time of capture.

RESUME

Kotyk, M. S., T. J. Brown, B. Kask, C. D. Levings, C. D. McAllister, J. S. Macdonald, and B. D. Chang. 1985. Data record on coded wire tags recovered from juvenile salmonids at Campbell River estuary and Discovery passage, 1984. Can. Data Rep. Fish. Aquat. Sci. 527: 17 p.

On présente des données sur la longueur, le poids et les étiquettes métalliques codées observés chez des salmonidés juvéniles capturés à l'aide de senne de rivage dans l'estuaire de la rivière Campbell et le passage Discovery de janvier à août 1984, en plus d'informations sur l'endroit, la date et le moment de la capture.

INTRODUCTION

In order to study the importance of estuarine habitats to juvenile salmonids, a beach seine sampling program was undertaken in the Campbell River estuary and Discovery Passage starting in March 1982. This study was designed primarily to compare the usage of man-made and natural habitats by juvenile chinook salmon. This report presents length, weight and coded wire tag data for marked juvenile salmonids sampled from January to August 1984. Length and weight data for unmarked juvenile salmonids sampled in this study are presented in Kotyk et al. (1985).

Sampling will be continued through 1985. Data for 1985 will be presented in future reports.

Sampling procedures

Fish were caught using a 13.7 m beach seine with wings 4.6 m (1 cm stretched mesh), bunt 4.6 m (0.6 mm stretched mesh), and depth 3.0 m. The net was fitted with 15 m towing lines off the wings. Usually the net was pulled off the beach using a 5 m inflatable boat with a 60 hp outboard engine. The distance the net was taken offshore depended on local conditions such as currents, bottom topography, and floating obstacles (wharves, kelp beds) and therefore ranged from 5 to 15 m.

Catches were usually held in the bunt of the net while being subsampled. However, when numbers were too large for this to be feasible, they were held in floating cages (75 cm x 50 cm x 37 cm deep; 5 mm mesh size). Subsamples of the fish caught were fixed in 10% formalin. Fish were measured and weighed within 1 month of being captured; weighing was done on a Mettler PL3000 balance.

Sampling locations

Sampling was conducted at sites within the Campbell River estuary (Fig. 1), and Discovery Passage (Fig. 2). Descriptions of each of the sampling stations are presented in Brown et al. 1985. All stations occupied, including those where marked salmonids were not captured, are shown.

DATA

A total of 505 marked salmonids were subsampled from a total catch of 3313 Brown et al. (1985). Each fish was measured, weighed and assigned a unique number before the coded wire tag was extracted and read.

The data in the tables are as follows:

DATE- sampling date (year, month, day).
ST- sampling station number.
TIME PST- sampling time (Pacific Standard Time).
SP- species code. 03 = coho, 05 = chinook
NO. KEPT- number of fish subsampled.
FISH NUM- a code identifying each fish uniquely, consisting of the letters M or MS and a 4 digit number.
TAG CODE- coded wire tag. "No pin" is indicated when none was found
L - fork length in mm.
WT- wet weight (after damp drying with paper towelling) in g.

ACKNOWLEDGEMENTS

Thanks are due to the staff at the Head Recovery Lab who did the majority of measuring and weighing of the fish, along with reading the coded wire tags.

Kotyk, M., T. J. Brown, C. D. Levings, C. D. McAllister, J. S. Macdonald, and B. D. Chang. 1985. Length and weight data for unmarked juvenile salmon sampled in the Campbell River estuary and Discovery Passage, 1984. Can. Data Rep. Fish. Aquat. Sci. 513: 59 p.

Brown, T. J., B. A. Kask, B. D. Chang, M. Kotyk, C. D. McAllister, J. S. Macdonald, and C. D. Levings. 1984. Salmonid catch data from Campbell River and Discovery Passage, 1984. Can. Data Rep. Fish. Aquat. Sci. 497: 79 p.

DATE	ST	TIME PST	SP	FISH NUM	TAG CODE	L MM	WT G
840321	10	1300	05	MX 001	08-20-56	170	62.4
840425	04	1805	05	MX 029	08-22-63	58	2.3
840425	07	1650	05	MX 031	08-22-62	69	4.2
840425	07	1650	05	MX 032	08-22-61	67	3.5
840425	07	1650	05	MX 033	08-22-60	57	2.5
840425	07	1650	05	MX 034	08-22-62	71	4.1
840425	07	1650	05	MX 035	08-22-62	65	3.6
840425	07	1650	05	MX 036	08-22-62	65	3.2
840425	07	1650	05	MX 037	08-22-62	64	3.4
840425	07	1650	05	MX 038	08-22-61	64	3.2
840425	07	1650	05	MX 039	08-22-62	63	3.0
840425	07	1650	05	MX 040	08-22-62	62	2.8
840425	07	1650	05	MX 041	08-22-62	61	2.4
840425	08	1625	05	MX 002	08-22-60	75	5.0
840425	08	1625	05	MX 003	08-22-61	66	3.5
840425	08	1625	05	MX 004	08-22-60	69	4.4
840425	08	1625	05	MX 005	08-22-62	66	3.5
840425	08	1625	05	MX 006	08-22-61	70	4.7
840425	08	1625	05	MX 007	08-22-60	64	3.4
840425	08	1625	05	MX 008	08-22-62	70	4.5
840425	08	1625	05	MX 009	08-22-60	66	3.4
840425	08	1625	05	MX 010	08-22-62	66	3.4
840425	08	1625	05	MX 011	08-22-60	64	3.1
840425	08	1625	05	MX 012	08-22-62	63	3.4
840425	30	1730	05	MX 028	08-22-13	40	0.6
840425	32	1330	05	MX 018	08-22-13	73	4.3
840425	32	1330	05	MX 019	08-22-21	62	2.8
840425	32	1330	05	MX 020	08-22-21	57	2.1
840425	32	1330	05	MX 021	08-22-20	52	1.6
840425	32	1330	05	MX 022	08-22-20	46	1.0
840425	32	1350	05	MX 013	08-22-13	78	5.5
840425	32	1350	05	MX 014	08-22-13	70	3.7
840425	32	1350	05	MX 030	08-22-21	60	2.7
840425	32	1400	05	MX 015	08-22-21	49	1.0
840425	32	1400	05	MX 016	08-22-13	64	2.5
840425	32	1400	05	MX 017	08-22-21	67	3.2
840425	32	1420	05	MX 023	08-22-21	64	2.9
840425	32	1420	05	MX 024	08-22-13	67	3.1
840425	32	1420	05	MX 025	08-22-21	63	2.6
840425	32	1420	05	MX 026	08-22-20	59	2.1
840425	32	1420	05	MX 027	08-22-21	49	1.0
840426	04	1738	05	MX 046	08-22-57	68	3.7
840426	25	1655	05	MX 051	08-23-01	63	2.5
840426	30	0915	05	MX 042	08-22-20	59	2.3
840426	151	0928	05	MX 044	08-22-60	63	2.9
840426	151	0928	05	MX 045	08-22-58	68	3.8
840426	151	0928	05	MX 043	08-22-59	68	4.1
840426	212	1710	05	MX 047	08-23-02	64	2.2
840426	212	1710	05	MX 048	08-23-02	64	2.5
840426	212	1710	05	MX 049	08-22-62	73	3.8
840426	321	1855	05	MX 050	08-22-13	49	1.2
840427	04	1519	05	MX 061	08-23-02	72	4.6
840427	04	1519	05	MX 062	08-22-62	71	4.5

DATE	ST	TIME PST	SP	FISH NUM	TAG CODE	L MM	WT G
840427	04	1519	05	MX 063	08-22-62	67	3.9
840427	04	1519	05	MX 064	08-22-62	65	3.5
840427	04	1519	05	MX 065	08-22-57	68	3.7
840427	07	1548	05	MX 058	08-22-59	62	2.7
840427	22	1246	05	MX 052	08-22-61	73	4.1
840427	22	1246	05	MX 053	08-22-60	65	2.5
840427	22	1246	05	MX 054	08-22-61	66	2.7
840427	04	1519	05	MX 063	08-22-62	67	3.9
840427	04	1519	05	MX 064	08-22-62	65	3.5
840427	04	1519	05	MX 065	08-22-57	68	3.7
840427	07	1548	05	MX 058	08-22-59	62	2.7
840427	22	1246	05	MX 052	08-22-61	73	4.1
840427	22	1246	05	MX 053	08-22-60	65	2.5
840427	22	1246	05	MX 054	08-22-61	66	2.7
840427	22	1246	05	MX 055	08-22-57	63	2.4
840427	22	1246	05	MX 056	08-23-01	66	2.9
840427	22	1246	05	MX 057	08-22-61	65	2.6
840427	25	1145	05	MX 066	08-22-59	63	2.3
840427	30	0910	05	MX 060	08-22-13	57	2.3
840427	32	1335	05	MX 059	08-22-13	49	1.4
840428	04	1035	05	MX 068	08-22-60	58	2.2
840428	08	0930	05	MX 067	08-22-61	63	3.1
840501	34	1415	05	MX 069	08-23-01	61	2.9
840501	34	1415	05	MX 070	08-23-02	63	2.9
840502	07	1632	05	MX 102	NO PIN	71	4.5
840502	07	1632	05	MX 103	08-22-62	72	4.6
840502	07	1632	05	MX 104	08-22-60	67	3.6
840502	07	1632	05	MX 105	08-22-60	71	4.1
840502	07	1632	05	MX 106	08-22-60	74	4.8
840502	07	1632	05	MX 107	08-22-63	69	3.9
840502	07	1632	05	MX 108	08-22-62	63	3.0
840502	07	1632	05	MX 109	08-22-59	70	4.1
840502	07	1632	05	MX 110	08-22-62	69	3.8
840502	07	1632	05	MX 111	08-22-62	66	3.2
840502	07	1632	05	MX 112	08-22-57	65	3.1
840502	07	1632	05	MX 113	08-22-60	67	3.5
840502	07	1632	05	MX 114	08-22-58	71	4.1
840502	07	1632	05	MX 115	08-22-58	63	3.2
840502	07	1632	03	MX 116	02-24-13	110	15.8
840502	07	1632	05	MX 117	08-22-57	72	5.0
840502	07	1632	05	MX 118	08-22-58	70	4.3
840502	07	1632	05	MX 119	08-22-61	73	5.0
840502	07	1632	05	MX 120	08-22-60	72	5.0
840502	07	1632	05	MX 121	08-22-58	72	4.6
840502	07	1632	05	MX 122	08-22-62	69	4.2
840502	07	1632	05	MX 123	08-22-63	68	4.0
840502	07	1632	05	MX 124	08-22-58	65	3.6
840502	07	1632	05	MX 125	08-22-57	72	4.5
840502	07	1632	05	MX 126	08-22-59	73	4.8
840502	07	1632	05	MX 127	08-22-59	68	3.6
840502	07	1632	05	MX 128	08-22-60	71	4.4
840502	07	1632	05	MX 129	08-22-60	68	3.9
840502	07	1632	05	MX 130	08-22-62	72	4.8

DATE	ST	TIME PST	SP	FISH NUM	TAG CODE	L MM	WT G
840502	07	1632	05	MX 131	08-22-61	63	3.2
840502	07	1632	05	MX 132	08-22-58	69	3.9
840502	07	1632	05	MX 133	08-22-58	63	3.1
840502	07	1632	05	MX 134	08-22-58	65	3.2
840502	07	1632	05	MX 122	08-22-62	69	4.2
840502	07	1632	05	MX 123	08-22-63	68	4.0
840502	07	1632	05	MX 124	08-22-58	65	3.6
840502	07	1632	05	MX 125	08-22-57	72	4.5
840502	07	1632	05	MX 126	08-22-59	73	4.8
840502	07	1632	05	MX 127	08-22-59	68	3.6
840502	07	1632	05	MX 128	08-22-60	71	4.4
840502	07	1632	05	MX 129	08-22-60	68	3.9
840502	07	1632	05	MX 130	08-22-62	72	4.8
840502	07	1632	05	MX 131	08-22-61	63	3.2
840502	07	1632	05	MX 132	08-22-58	69	3.9
840502	07	1632	05	MX 133	08-22-58	63	3.1
840502	07	1632	05	MX 134	08-22-58	65	3.2
840502	07	1632	05	MX 135	08-22-62	65	3.3
840502	07	1632	05	MX 136	08-23-01	62	2.8
840502	21	1419	05	MX 071	08-22-62	65	2.8
840502	34	1513	05	MX 072	08-22-58	67	3.7
840502	34	1513	05	MX 073	08-22-58	60	2.6
840502	34	1513	05	MX 074	08-22-60	56	2.1
840502	34	1513	05	MX 075	08-22-60	69	3.7
840502	292	1329	05	MX 077	08-23-02	68	3.2
840502	292	1329	05	MX 078	08-22-61	70	3.7
840502	292	1329	05	MX 079	08-22-60	69	3.5
840502	292	1329	05	MX 080	08-22-63	70	3.9
840502	292	1329	05	MX 081	08-23-01	65	3.0
840502	292	1329	05	MX 082	08-22-20	67	3.6
840502	292	1329	05	MX 083	08-23-01	69	3.5
840502	292	1329	05	MX 084	08-23-02	69	3.7
840502	292	1329	05	MX 085	08-23-01	70	3.6
840502	292	1329	05	MX 086	08-23-01	70	3.7
840502	292	1329	05	MX 087	08-22-13	68	3.2
840502	292	1329	05	MX 088	08-23-02	68	3.0
840502	292	1329	05	MX 089	08-22-58	69	3.4
840502	292	1329	05	MX 090	08-23-02	72	3.5
840502	292	1329	05	MX 091	08-22-59	68	3.8
840502	292	1329	05	MX 092	08-23-01	67	3.2
840502	292	1329	05	MX 093	08-22-59	68	3.2
840502	292	1329	05	MX 094	08-22-63	67	3.2
840502	292	1329	05	MX 095	08-23-02	70	3.6
840502	292	1329	05	MX 096	08-23-02	66	3.1
840502	292	1329	05	MX 098	08-23-02	68	3.1
840502	292	1329	05	MX 099	08-22-13	70	3.5
840502	292	1329	05	MX 100	08-22-62	66	3.0
840502	292	1329	05	MX 101	08-22-59	62	2.4
840502	292	1329	05	MX 076	08-23-01	75	4.6
840502	292	1329	05	MX 097	08-22-63	64	2.5
840515	03	1350	05	MX 147	08-22-59	63	2.7
840515	03	1625	03	MX 150	02-24-13	102	12.9
840515	03	1625	05	MX 151	08-23-01	72	4.7

DATE	ST	TIME PST	SP	FISH NUM	TAG CODE	L MM	WT G
840515	06	1250	05	MX 148	08-22-59	69	3.8
840515	07	1225	05	MX 149	08-22-57	62	2.9
840515	18	1500	03	MX 142	02-24-13	117	18.1
840515	18	1500	03	MX 143	02-24-13	125	21.2
840515	18	1500	03	MX 144	02-24-13	112	14.2
840515	18	1500	03	MX 145	02-24-13	111	15.2
840515	18	1500	05	MX 146	08-22-63	74	5.1
840515	37	1325	05	MX 137	08-22-63	77	5.6
840515	37	1325	05	MX 138	08-23-02	74	4.9
840515	37	1325	05	MX 139	08-23-01	70	4.3
840515	37	1325	05	MX 140	08-22-58	81	6.9
840515	37	1325	05	MX 141	08-22-62	73	4.9
840604	01	1500	05	MX 313	08-22-58	094	09.6
840604	05	1530	03	MX 280	02-25-48	135	25.8
840604	05	1530	05	MX 281	08-22-59	080	05.3
840604	05	1530	05	MX 282	NO PIN	123	16.9
840604	05	1530	03	MX 283	08-22-46	125	16.6
840604	05	1530	05	MX 284	08-22-60	092	08.6
840604	05	1530	03	MX 285	02-25-48	126	19.5
840604	05	1530	03	MX 286	08-22-46	140	26.5
840604	05	1530	03	MX 287	02-25-48	134	22.9
840604	05	1530	03	MX 288	08-22-40	135	22.1
840604	05	1530	05	MX 289	08-22-60	085	06.8
840604	05	1530	03	MX 290	02-25-48	127	18.5
840604	05	1530	03	MX 291	08-22-44	123	17.3
840604	05	1530	05	MX 292	08-22-59	084	07.4
840604	05	1530	05	MX 293	08-22-61	077	05.1
840604	05	1530	05	MX 294	NO PIN	094	08.4
840604	06	1745	05	MX 295	08-22-59	083	05.7
840604	06	1745	05	MX 296	08-22-59	085	06.3
840604	06	1745	05	MX 297	NO PIN	089	07.3
840604	06	1745	05	MX 298	08-22-60	080	05.1
840604	06	1745	05	MX 299	08-22-61	087	07.2
840604	06	1745	03	MX 300	08-22-33	136	23.7
840604	07	1315	03	MX 301	08-22-38	123	18.2
840604	07	1315	03	MX 302	08-22-36	112	15.3
840604	07	1315	03	MX 303	02-25-49	137	23.3
840604	07	1315	05	MX 304	08-22-60	077	05.1
840604	07	1315	05	MX 305	08-22-62	080	05.7
840604	07	1315	05	MX 306	08-22-62	080	05.6
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840604	07	1315	05	MX 310	08-22-62	080	05.9
840604	07	1315	05	MX 311	08-22-62	080	05.5
840604	07	1315	05	MX 312	08-23-02	080	05.4
840604	16	1810	05	MX 264	08-22-59	089	07.0
840604	16	1810	03	MX 265	02-25-49	124	15.9
840604	34	1620	05	MX 339	08-22-57	092	8.4
840604	34	1620	03	MX 340	08-22-37	123	16.3
840604	34	1620	05	MX 341	08-22-58	087	07.2
840604	34	1620	05	MX 342	08-22-62	095	09.1
840604	34	1620	05	MX 343	08-22-62	083	06.4

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840604	34	1630	03	MX 266	08-22-43	138	24.3
840604	34	1630	03	MX 267	08-22-40	130	20.6
840604	34	1630	03	MX 268	08-22-34	130	19.8
840604	34	1630	05	MX 269	08-22-62	079	05.5
840604	34	1630	03	MX 270	08-22-36	130	20.3
840604	34	1630	03	MX 271	08-22-39	134	18.2
840604	34	1630	03	MX 272	02-25-48	114	14.2
840604	34	1630	03	MX 273	08-22-42	127	18.4
840604	34	1630	05	MX 274	08-22-61	077	04.9
840604	34	1630	03	MX 275	08-22-35	114	13.7
840604	34	1630	03	MX 276	08-22-33	131	18.4
840604	34	1630	05	MX 278	NO PIN	138	22.3
840604	34	1630	05	MX 279	08-22-62	079	05.1
840604	37	1400	03	MX 255	02-25-48	112	12.5
840604	37	1400	03	MX 256	08-22-41	123	15.3
840604	37	1400	05	MX 257	08-23-02	088	06.9
840604	37	1400	05	MX 258	08-22-57	093	08.2
840604	37	1400	05	MX 259	08-23-02	085	06.5
840604	37	1400	05	MX 260	08-22-57	090	06.8
840605	23	1400	03	MX 317	02-24-48	115	15.5
840605	23	1400	03	MX 318	08-22-36	131	18.6
840605	241	1230	03	MX 314	08-22-44	128	18.9
840605	241	1230	05	MX 315	08-22-63	101	11.6
840605	241	1230	05	MX 316	08-22-63	077	04.6
840605	292	1640	03	MX 319	02-25-50	138	25.7
840605	292	1640	03	MX 320	02-24-48	148	32.0
840605	292	1640	03	MX 321	02-24-13	125	17.2
840605	292	1640	03	MX 322	08-22-29	127	18.5
840606	06	1055	05	MX 323	08-22-61	088	7.6
840606	06	1055	05	MX 324	08-22-59	089	7.6
840606	06	1055	05	MX 325	08-22-59	084	6.7
840606	06	1055	05	MX 326	08-22-61	085	6.2
840606	06	1055	05	MX 327	08-22-59	086	6.5
840606	06	1055	05	MX 328	NO PIN	088	7.2
840606	06	1055	05	MX 329	08-22-57	090	7.5
840606	06	1055	05	MX 330	08-22-60	092	8.5
840606	06	1055	05	MX 331	08-22-59	089	7.7
840606	06	1055	05	MX 332	08-22-58	083	5.6
840606	06	1055	05	MX 333	08-22-58	091	7.5
840606	06	1055	05	MX 334	08-22-58	085	6.6
840606	06	1055	05	MX 335	08-22-57	084	6.1
840606	06	1055	05	MX 336	08-22-57	069	3.3
840606	06	1055	05	MX 337	08-22-59	091	7.8
840606	06	1055	05	MX 338	08-22-61	096	9.6
840618	01	1520	05	MX 242	02-26-32	108	13.4
840618	01	1520	05	MX 243	02-26-32	094	09.5
840618	04	1610	05	MX 244	02-26-31	090	09.1
840618	04	1610	05	MX 245	02-26-31	101	10.6
840618	04	1610	05	MX 246	02-26-32	105	12.8
840618	04	1610	05	MX 247	02-26-31	108	14.3
840618	04	1610	05	MX 248	02-26-31	092	08.7
840618	04	1610	05	MX 249	02-26-31	105	13.5
840618	04	1610	03	MX 250	02-24-13	115	18.6

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840618	04	1610	03	MX 251	02-24-48	121	14.0
840618	04	1610	03	MX 252	02-24-13	108	12.1
840618	04	1610	03	MX 253	08-22-32	120	17.7
840618	04	1610	05	MX 254	02-26-31	101	11.0
840618	05	1540	05	MX 354	08-22-60	094	09.6
840618	05	1540	05	MX 355	02-26-32	102	12.2
840618	05	1540	05	MX 356	02-26-32	111	16.7
840618	05	1540	05	MX 357	02-26-32	105	13.1
840618	05	1540	05	MX 358	02-26-32	105	15.3
840618	05	1540	05	MX 359	02-26-32	103	13.8
840618	05	1540	05	MX 360	08-22-63	109	16.2
840618	05	1540	05	MX 361	08-22-61	095	10.2
840618	05	1540	05	MX 362	08-22-60	090	08.1
840618	05	1540	05	MX 363	08-26-32	105	14.5
840618	05	1540	05	MX 364	08-22-59	095	10.6
840618	05	1540	05	MX 365	08-22-60	098	12.1
840618	05	1540	05	MX 366	08-22-61	097	10.6
840618	07	1425	05	MX 344	02-26-32	108	13.7
840618	07	1425	05	MX 345	02-26-31	098	09.5
840618	07	1425	05	MX 346	02-26-32	093	08.7
840618	07	1425	05	MX 347	02-26-31	094	09.3
840618	07	1425	05	MX 348	02-26-31	093	09.1
840618	07	1425	05	MX 349	02-26-31	100	10.2
840618	07	1425	05	MX 350	02-26-31	092	08.1
840618	07	1425	05	MX 351	02-26-31	097	09.9
840618	07	1425	05	MX 352	02-26-31	095	08.9
840618	07	1425	05	MX 353	02-26-31	099	10.1
840619	21	1725	03	MX 367	08-22-38	130	23.2
840619	21	1725	03	MX 368	02-25-49	122	17.3
840619	21	1725	05	MX 369	02-26-32	105	12.3
840619	21	1725	03	MX 370	08-22-38	135	23.5
840619	21	1725	05	MX 371	02-26-32	122	18.1
840619	21	1725	03	MX 372	08-22-32	115	14.6
840619	21	1725	03	MX 373	02-25-50	127	19.3
840619	21	1725	05	MX 374	08-22-60	104	12.0
840619	25	1330	03	MX 380	02-25-48	133	19.6
840619	34	1645	05	MX 375	08-22-62	093	08.3
840619	34	1645	05	MX 376	02-26-32	105	14.2
840619	34	1645	05	MX 377	02-26-31	101	10.6
840619	34	1645	05	MX 378	02-26-32	115	19.2
840619	241	1215	05	MX 379	02-26-31	102	09.1
840619	292	1600	03	MX 261	02-25-50	132	23.2
840619	292	1600	05	MX 262	NO PIN	140	18.2
840620	22	1450	05	MX 234	02-26-32	115	15.7
840620	22	1450	05	MX 235	08-22-61	100	11.0
840620	22	1450	05	MX 236	08-22-62	101	10.6
840620	22	1450	05	MX 237	08-22-57	090	07.9
840620	22	1450	05	MX 238	08-22-60	096	09.4
840620	22	1450	05	MX 239	02-26-32	110	14.2
840620	22	1450	05	MX 240	02-26-32	115	14.0
840620	22	1450	05	MX 241	02-26-32	105	11.8
840703	01	1350	05	MX 394	02-26-32	107	14.1
840703	03	1430	05	MX 263	02-26-31	110	14.1

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840703	04	1450	05	MX 404	02-26-31	096	09.3
840703	04	1450	05	MX 405	02-26-31	106	13.8
840703	04	1450	05	MX 406	02-26-32	111	16.4
840703	04	1450	05	MX 407	NO PIN	132	23.7
840703	04	1450	03	MX 408	02-24-13	127	17.7
840703	04	1450	05	MX 409	08-22-57	102	11.6
840703	04	1450	05	MX 410	08-22-60	080	05.0
840703	05	1530	03	MX 395	02-25-50	162	52.3
840703	05	1530	03	MX 396	02-23-49	142	20.6
840703	05	1530	05	MX 397	02-26-32	109	13.2
840703	05	1530	05	MX 398	02-26-31	103	11.9
840703	05	1530	05	MX 399	08-22-60	102	12.5
840703	05	1530	05	MX 400	08-23-02	094	09.7
840703	05	1530	05	MX 401	02-26-31	099	09.9
840703	05	1530	05	MX 402	08-22-62	089	07.8
840703	05	1530	05	MX 403	08-22-58	085	07.3
840703	07	1350	05	MX 381	02-26-31	099	10.6
840703	07	1350	05	MX 382	02-26-31	103	11.9
840703	07	1350	05	MX 383	02-26-31	113	15.9
840703	07	1350	05	MX 384	02-26-32	120	18.7
840703	07	1350	05	MX 385	02-26-32	101	10.9
840703	07	1350	05	MX 386	02-26-31	108	13.7
840703	07	1350	05	MX 387	02-26-31	103	11.7
840703	07	1350	05	MX 388	02-26-31	106	13.3
840703	07	1350	05	MX 389	02-26-31	094	07.3
840703	07	1350	05	MX 390	02-26-32	115	17.7
840703	07	1350	05	MX 391	02-26-32	108	15.6
840703	16	1815	05	MX 393	08-22-58	092	08.3
840703	18	1845	05	MX 392	08-22-60	101	12.1
840703	20	1725	05	MX 226	02-26-31	115	10.0
840703	20	1725	05	MX 227	02-27-11	100	09.5
840703	20	1725	05	MX 228	08-22-62	106	11.3
840703	20	1725	05	MX 229	02-26-31	100	09.0
840703	20	1725	05	MX 230	08-22-60	099	07.3
840703	20	1725	05	MX 231	02-27-11	098	08.7
840703	20	1725	05	MX 232	NO PIN	099	09.6
840703	20	1725	05	MX 233	08-22-57	107	10.7
840703	37	1410	05	MX 415	08-22-61	109	16.0
840703	37	1410	05	MX 416	08-22-59	116	19.3
840703	37	1410	05	MX 417	08-23-02	104	13.9
840703	37	1410	05	MX 418	08-22-57	110	13.8
840703	37	1410	03	MX 419	02-24-13	134	27.6
840703	37	1410	05	MX 420	02-26-31	109	12.2
840703	37	1410	05	MX 421	02-26-32	094	07.8
840703	111	1910	05	MX 411	02-26-31	111	15.6
840703	111	1910	05	MX 412	NO PIN	104	11.4
840703	111	1910	05	MX 413	02-26-32	105	12.3
840703	111	1910	05	MX 414	02-26-31	109	14.7
840704	06	0910	05	MX 435	02-26-32	112	15.1
840704	06	0910	05	MX 436	02-26-31	102	10.6
840704	06	0910	05	MX 437	08-22-62	102	11.3
840704	06	0910	05	MX 438	02-22-57	108	15.7
840704	06	0910	05	MX 439	02-26-31	103	11.7

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840704	06	0910	05	MX 440	02-26-31	089	07.1
840704	08	0850	05	MX 422	02-26-31	111	14.3
840704	08	0850	05	MX 423	02-26-32	108	13.3
840704	08	0850	05	MX 424	02-26-32	105	10.5
840704	08	0850	05	MX 425	02-26-31	109	13.7
840704	08	0850	05	MX 426	02-26-32	109	15.2
840704	08	0850	05	MX 427	02-26-32	114	16.4
840704	08	0850	05	MX 428	02-26-32	116	16.4
840704	08	0850	05	MX 429	02-26-32	111	16.9
840704	08	0850	05	MX 430	08-22-61	098	11.2
840704	08	0850	05	MX 431	08-22-59	106	13.4
840704	08	0850	05	MX 432	02-26-31	099	11.4
840704	10	0835	05	MX 433	NO PIN	108	13.6
840704	10	0835	05	MX 434	02-26-32	106	13.9
840704	24	1325	05	MX 441	02-28-26	102	09.8
840704	24	1325	05	MX 442	02-26-31	108	10.7
840704	24	1325	05	MX 443	02-27-11	104	09.8
840704	24	1325	05	MX 444	08-22-60	098	09.4
840704	24	1355	05	MX 445	02-26-32	125	22.7
840704	24	1355	05	MX 446	02-26-31	106	11.6
840704	24	1355	05	MX 447	02-26-32	121	18.7
840704	24	1355	05	MX 448	02-26-32	116	19.1
840704	24	1355	05	MX 449	02-26-31	104	12.1
840704	24	1355	05	MX 450	02-26-31	102	10.7
840704	24	1355	05	MX 451	02-26-31	104	11.9
840704	24	1355	05	MX 452	02-26-32	110	13.2
840705	20	0915	05	MX 465	02-27-11	094	08.8
840705	21	0835	03	MX 453	02-24-13	143	37.4
840705	21	0835	05	MX 454	NO PIN	092	07.7
840705	21	0835	05	MX 455	02-26-31	135	27.5
840705	21	0835	03	MX 456	02-25-48	101	10.1
840705	21	0835	05	MX 457	08-22-59	110	14.7
840705	21	0835	05	MX 458	NO PIN	124	17.4
840705	21	0835	05	MX 459	02-27-11	090	07.9
840705	21	0845	05	MX 460	08-22-57	116	18.0
840705	21	0845	05	MX 461	02-27-11	089	07.4
840705	21	0845	05	MX 462	02-26-32	108	12.3
840705	21	0845	05	MX 463	02-27-48	097	10.6
840705	21	0845	05	MX 464	02-27-11	091	06.8
840718	04	1830	03	MX 470	02-25-50	131	18.0
840718	04	1830	05	MX 471	02-26-32	107	12.1
840718	28	1435	05	MX 466	02-27-11	108	10.1
840719	06	1045	05	MX 467	NO PIN	117	16.1
840719	06	1045	05	MX 468	02-26-32	117	17.1
840719	06	1045	05	MX 469	08-22-63	115	17.1
840719	08	1025	05	MX 470	02-26-31	107	13.0
840731	03	1520	05	MX 473	02-26-31	110	14.0
840731	06	1430	05	MX 479	02-26-32	123	23.0
840731	07	1405	05	MX 474	02-26-31	108	13.1
840731	07	1405	05	MX 475	NO PIN	103	13.1
840731	07	1405	05	MX 476	02-26-31	098	08.0
840731	21	1655	05	MX 477	02-27-47	121	17.0
840731	21	1655	05	MX 478	02-26-31	114	14.0

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840801	07	1520	05	MX 480	02-26-32	128	25.0
840801	07	1520	05	MX 481	02-26-31	098	10.1
840801	07	1520	05	MX 482	02-26-31	120	22.1
840801	07	1520	05	MX 483	08-22-58	088	08.1
840801	07	1520	05	MX 484	NO PIN	112	17.0
840801	07	1520	05	MX 485	08-22-58	112	21.0
840801	07	1520	05	MX 486	08-22-58	113	18.1
840801	07	1520	05	MX 487	02-26-31	111	17.1
840814	07	1245	05	MX 499	08-22-56	147	47.9
840814	07	1245	05	MX 500	02-26-31	113	18.4
840814	07	1715	05	MX 504	02-26-32	162	73.2
840814	07	1715	03	MX 505	08-22-32	142	35.0
840814	07	1715	05	MX 506	02-27-10	114	22.1
840814	07	1755	05	MX 494	02-26-31	95	10.7
840814	08	1320	05	MX 491	02-26-31	113	16.6
840814	21	1410	05	MX 493	02-28-25	129	22.4
840815	24	1145	05	MX 492	02-27-10	106	12.5
840816	07	1050	05	MX 488	02-26-31	107	12.6
840816	07	1050	05	MX 489	NO PIN	189	8.8
840826	06	0910	05	MX 495	02-26-31	142	45.3
840828	05	1425	05	MX 501	02-26-31	127	33.2
840828	05	1425	05	MX 502	NO PIN	109	18.9
840828	05	1440	05	MX 490	08-22-62	119	20.7
840828	07	1330	05	MX 496	02-26-32	95	11.3
840828	07	1330	05	MX 497	02-26-32	113	16.2
840828	08	1720	05	MX 498	02-26-32	118	20.9
840829	07	1530	03	MX 503	08-22-45	107	18.7
840731	03	1520	05	MX 473	02-26-31	110	14.0
840731	06	1430	05	MX 479	02-26-32	123	23.0
840731	07	1405	05	MX 474	02-26-31	108	13.1
840731	07	1405	05	MX 475	NO PIN	103	13.1
840731	07	1405	05	MX 476	02-26-31	098	08.0
840731	21	1655	05	MX 477	02-27-47	121	17.0
840731	21	1655	05	MX 478	02-26-31	114	14.0
840801	07	1520	05	MX 480	02-26-32	128	25.0
840801	07	1520	05	MX 481	02-26-31	098	10.1
840801	07	1520	05	MX 482	02-26-31	120	22.1
840801	07	1520	05	MX 483	08-22-58	088	08.1
840801	07	1520	05	MX 484	NO PIN	112	17.0
840801	07	1520	05	MX 485	08-22-58	112	21.0
840801	07	1520	05	MX 486	08-22-58	113	18.1
840801	07	1520	05	MX 487	02-26-31	111	17.1
840814	07	1245	05	MX 499	08-22-56	147	47.9
840814	07	1245	05	MX 500	02-26-31	113	18.4
840814	07	1715	05	MX 504	02-26-32	162	73.2
840814	07	1715	03	MX 505	08-22-32	142	35.0
840814	07	1715	05	MX 506	02-27-10	114	22.1
840814	07	1755	05	MX 494	02-26-31	95	10.7
840814	08	1320	05	MX 491	02-26-31	113	16.6
840814	21	1410	05	MX 493	02-28-25	129	22.4
840815	24	1145	05	MX 492	02-27-10	106	12.5
840816	07	1050	05	MX 488	02-26-31	107	12.6
840816	07	1050	05	MX 489	NO PIN	189	8.8

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840826	06	0910	05	MX 495	02-26-31	142	45.3
840828	05	1425	05	MX 501	02-26-31	127	33.2
840828	05	1425	05	MX 502	NO PIN	109	18.9
840828	05	1440	05	MX 490	08-22-62	119	20.7
840828	07	1330	05	MX 496	02-26-32	95	11.3
840828	07	1330	05	MX 497	02-26-32	113	16.9
840828	08	1720	05	MX 498	02-26-32	118	20.9
840829	07	1530	03	MX 503	08-22-45	107	18.7
840731	03	1520	05	MX 473	02-26-31	110	14.0
840731	06	1430	05	MX 479	02-26-32	123	23.0
840731	07	1405	05	MX 474	02-26-31	108	13.1
840731	07	1405	05	MX 475	NO PIN	103	13.1
840731	07	1405	05	MX 476	02-26-31	098	08.0
840731	21	1655	05	MX 477	02-27-47	121	17.0
840731	21	1655	05	MX 478	02-26-31	114	14.0
840801	07	1520	05	MX 480	02-26-32	128	25.0
840801	07	1520	05	MX 481	02-26-31	098	10.1
840801	07	1520	05	MX 482	02-26-31	120	22.1
840801	07	1520	05	MX 483	08-22-58	088	08.1
840801	07	1520	05	MX 484	NO PIN	112	17.0
840801	07	1520	05	MX 485	08-22-58	112	21.0
840801	07	1520	05	MX 486	08-22-58	113	18.1
840801	07	1520	05	MX 487	02-26-31	111	17.1
840814	07	1245	05	MX 499	08-22-56	147	47.9
840814	07	1245	05	MX 500	02-26-31	113	18.4
840814	07	1715	05	MX 504	02-26-32	162	73.2
840814	07	1715	03	MX 505	08-22-32	142	35.0
840814	07	1715	05	MX 506	02-27-10	114	22.1
840814	07	1755	05	MX 494	02-26-31	95	10.7
840814	08	1320	05	MX 491	02-26-31	113	16.6
840814	21	1410	05	MX 493	02-28-25	129	22.4
840815	24	1145	05	MX 492	02-27-10	106	12.5
840816	07	1050	05	MX 488	02-26-31	107	12.6
840816	07	1050	05	MX 489	NO PIN	189	8.8
840826	06	0910	05	MX 495	02-26-31	142	45.3
840828	05	1425	05	MX 501	02-26-31	127	33.2
840828	05	1425	05	MX 502	NO PIN	109	18.9
840828	05	1440	05	MX 490	08-22-62	119	20.7
840828	07	1330	05	MX 496	02-26-32	95	11.3
840828	07	1330	05	MX 497	02-26-32	113	16.9
840828	08	1720	05	MX 498	02-26-32	118	20.9
840829	07	1530	03	MX 503	08-22-45	107	18.7
840731	03	1520	05	MX 473	02-26-31	110	14.0
840731	06	1430	05	MX 479	02-26-32	123	23.0
840731	07	1405	05	MX 474	02-26-31	108	13.1
840731	07	1405	05	MX 475	NO PIN	103	13.1
840731	07	1405	05	MX 476	02-26-31	098	08.0
840731	21	1655	05	MX 477	02-27-47	121	17.0
840731	21	1655	05	MX 478	02-26-31	114	14.0
840801	07	1520	05	MX 480	02-26-32	128	25.0
840801	07	1520	05	MX 481	02-26-31	098	10.1
840801	07	1520	05	MX 482	02-26-31	120	22.1
840801	07	1520	05	MX 483	08-22-58	088	08.1

DATE	ST	TIME PST	SP	FISH NUM	TAG CODE	L MM	WT G
840801	07	1520	05	MX 484	NO PIN	112	17.0
840801	07	1520	05	MX 485	08-22-58	112	21.0
840801	07	1520	05	MX 486	08-22-58	113	18.1
840801	07	1520	05	MX 487	02-26-31	111	17.1
840814	07	1245	05	MX 499	08-22-56	147	47.9
840814	07	1245	05	MX 500	02-26-31	113	18.4
840814	07	1715	05	MX 504	02-26-32	162	73.2
840814	07	1715	03	MX 505	08-22-32	142	35.0
840814	07	1715	05	MX 506	02-27-10	114	22.1
840814	07	1755	05	MX 494	02-26-31	95	10.7
840814	08	1320	05	MX 491	02-26-31	113	16.6
840814	21	1410	05	MX 493	02-28-25	129	22.4
840815	24	1145	05	MX 492	02-27-10	106	12.5
840816	07	1050	05	MX 488	02-26-31	107	12.6
840816	07	1050	05	MX 489	NO PIN	189	8.8
840826	06	0910	05	MX 495	02-26-31	142	45.3
840828	05	1425	05	MX 501	02-26-31	127	33.2
840828	05	1425	05	MX 502	NO PIN	109	18.9
840828	05	1440	05	MX 490	08-22-62	119	20.7
840828	07	1330	05	MX 496	02-26-32	95	11.3
840828	07	1330	05	MX 497	02-26-32	113	16.9
840828	08	1720	05	MX 498	02-26-32	118	20.9
840829	07	1530	03	MX 503	08-22-45	107	18.7

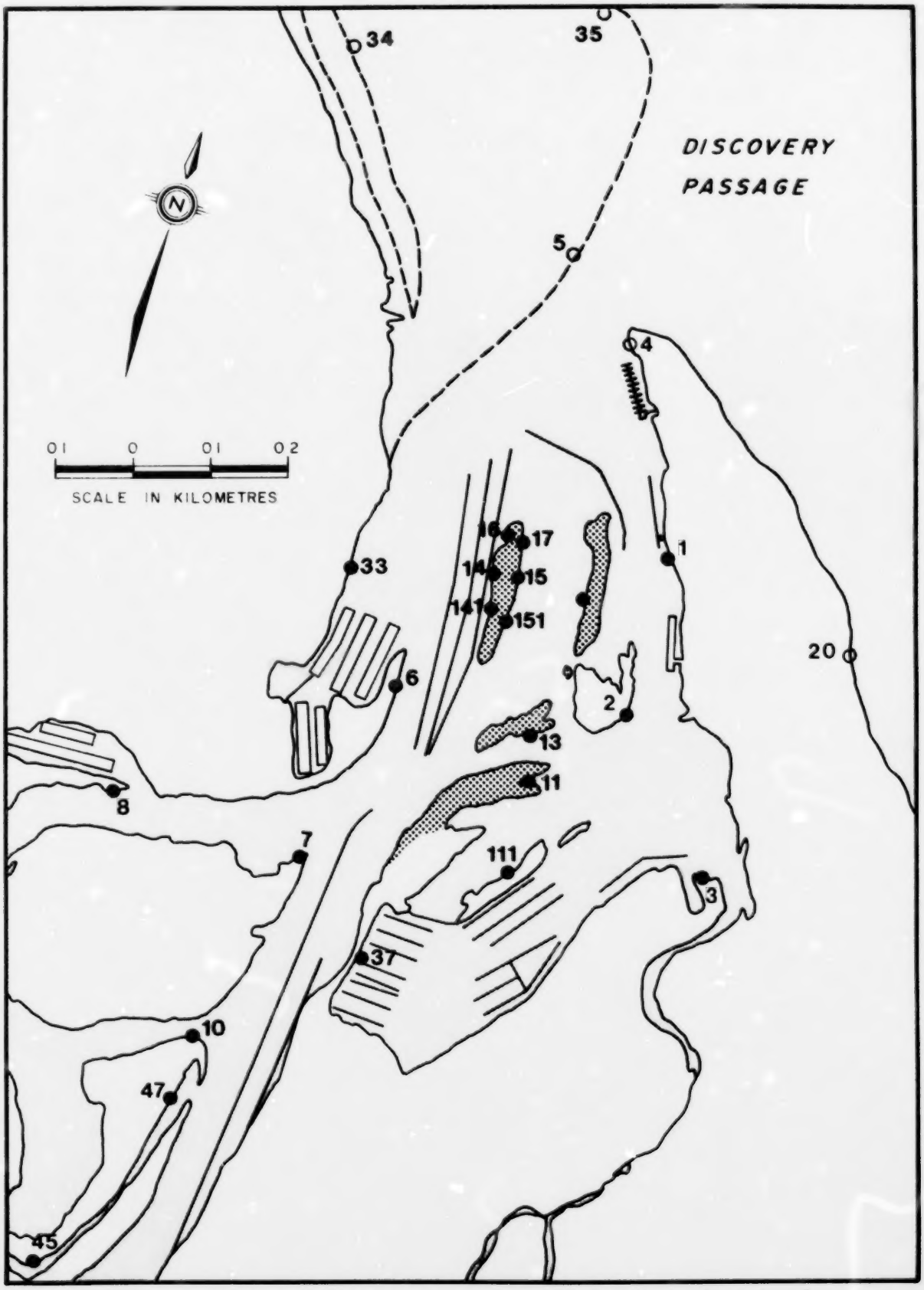

Fig. 1. Chart of the Campbell River estuary showing stations where beach seining was conducted.

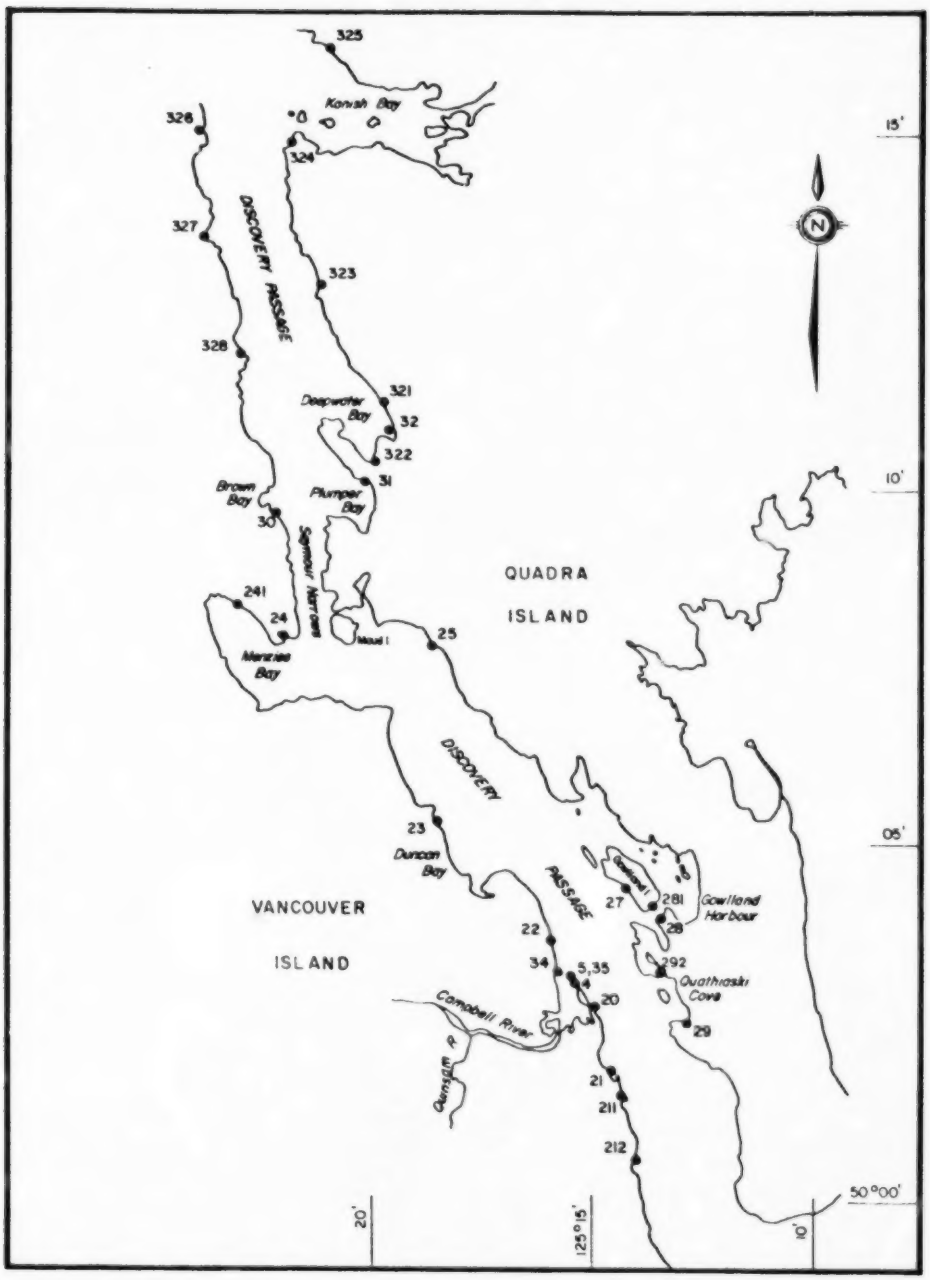

Fig. 2. Chart of Discovery Passage showing stations where beach seining was conducted in 1984.